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"failure correlation" and (replicas and servers)

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[PDF] ► Beyond availability: Towards a deeper understanding of machine failure ...P Yalagandula, S Nath, H Yu, PB Gibbons, S Seshan - [usenix.org](#)

... Here we investigate how strong **failure correlation** is for PlanetLab nodes and for the ... 58 nodes failed near-simultaneously; while WS_trace has a failure event of 42 web servers. ... They also incorporate repair mechanisms (called regeneration) to create new replicas when existing ...

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Introspective failure analysis: Avoiding correlated failures in peer-to-peer systems- ► [psu.edu](#)**[PDF]**H Weatherspoon, T Moscovitz, J ... - ... OF THE SYMPOSIUM ..., 2002 - [doi.ieeecomputersociety.org](#)

... The four-fragment case (top line) is equivalent to simple replica-tion on four servers. ... the subsequent placement of elements on such servers dissemination. ... input from human sources, network measure- ments, and online observation to develop a model of failure correlation. ...

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Large-scale simulation of replica placement algorithms for a serverless distributed ...-**► [psu.edu](#) [PDF]**JR Douceur, RP Wattenhofer - Proceedings of the 9th ... - [doi.ieeecomputersociety.org](#)

... scalable, distributed file system that logically functions as a centralized file server but that ... Replicas are placed to maximize the effective system availability, using a distributed, iterative ... We quantify the degree of machine failure correlation and develop a formula to approximate its ...

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[PDF] ► The Phoenix Recovery System: Rebuilding from the ashes of an Internet ...F Junqueira, R Bhagwan, K Marzullo, S ... - Proc. of HotOS- ..., 2003 - [research.microsoft.com](#)

... servers so that the replicas will survive Internet worms that exploit bugs in the server. ... backup system for tolerating catastrophes, we need a con- cise way of representing failure correlation. ... Replicas on additional hosts beyond a core set will not sig- nificantly contribute to data ...

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Performance and availability tradeoffs in replicated file systems- ► [psu.edu](#) [PDF]J Zhang, P Honeyman - Ann Arbor - [doi.ieeecomputersociety.org](#)

... expected frequency of storage site failure, and the degree of correlated failure among replication servers. ... correlation is around 0.2, but when the RTT is 200 msec., the failure correlation drops to ... can improve the durability of data by maintaining copies on remote replicas and by ...

Cited by 4 - Related articles - All 10 versions

[PDF] ► The replica management system: a scheme for flexible and dynamic replication

MC Little, DL McCue - 1994 - Citeseer

... For example, replicating a critical name-server object on three machines that receive power ... and a very high MTTR would be unsuitable for placing object replicas which will ... system attempts automatic detection of common failure patterns and develops a failure correlation matrix ...

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Component Replication based on Failover Units- ► [wustl.edu](#) [PDF]F Wolf, J Balasubramanian, A ... - Proceedings of the ..., 2009 - [doi.ieeecomputersociety.org](#)

... as the need for efficient synchronization of internal component state, failure correlation across

groups ... Manually implementing these initialization steps in clients and servers increases the risk of ... deployment scenarios, since the number and types of object replicas per-server ...

Cited by 4 - Related articles - All 5 versions

Software survivability

D Wells, S Ford, D Langworthy, N ... - Proc. DARPA Information ... - doi.ieeecomputersociety.org

... The number and placement of the replicas implementing a server object can be changed using the capabilities of any of a number of replica management systems [13][5] and the ability to migrate and mutate objects introduced above. ...

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[PDF] ► Subtleties in tolerating correlated failures in wide-area storage systems

S Nath, H Yu, PB Gibbons, S Seshan - usenix.org

... a similar conclusion by analyzing a four-week failure trace of 306 web servers 4. Based on stability of the clusters, they conjecture that by placing the n fragments (or replicas) in n different clusters, the n fragments will not observe excessive failure correlation among themselves. ...

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[PDF] ► Supporting Component-based Failover Units in Middleware for Distributed Real- ...

F Wolfa, J Balasubramaniana, S Tambea, A Gokhale, ... - cse.wustl.edu

... efficient synchronization of internal component state, failure correlation across groups of components, ... synchronization. Each process containing server object replicas also hosts a StateSynchronizationAgent that is responsible for all replication ...

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